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(57) Abstract: Method for modulating the migration of neural progenitor cells in a mammal by exposing the cells to a VEGFR-2 ligand and FGF-2. Methods of treating neurological disorders by exposing the mammal to a VEGFR-2 ligand in the presence of FGF-2 are also provided. A composition including a biocompatible matrix associated with FGF-2 is also provided.